

Amendments to the Claims

1. (*Currently Amended*) A magnetoresistive speed sensor (100) ~~with a~~ comprising a permanent magnet (10) and ~~with a magnetic field detecting sensor (A, B) for a magnetic field~~ for detecting the speed of an object rotating about an x-axis, wherein _____ the magnetoresistive speed sensor (100) has a measuring direction (ME), characterized in that the measuring direction (ME) is aligned ~~to be~~ parallel with the x-direction, and two magnetic field detecting sensors (A, B) are disposed at a distance from one another and perpendicular to the measuring direction.
2. (*Currently Amended*) A magnetoresistive speed sensor as claimed in Claim 1, characterized in that the magnetic field detecting sensors (A, B) are disposed symmetrically in relation to the x-axis on the y-axis.
3. (*Currently Amended*) A magnetoresistive speed sensor ~~as claimed in Claim 1 or 2, as claimed in Claim 1,~~ characterized in that each of the magnetic field detecting sensors (A, B) is a Wheatstone bridge (~~11~~).
4. (*Currently Amended*) A magnetoresistive speed sensor ~~as claimed in Claim 1 or 2, as claimed in Claim 1,~~ characterized in that each of the magnetic field detecting sensors (A, B) is a half bridge.
5. (*Currently Amended*) A magnetoresistive speed sensor ~~as claimed in any one of Claims 1 to 4, as claimed in Claim 1,~~ characterized in that the permanent magnet (10) has a magnetic field component in the x-direction.
6. (*Currently Amended*) A use of a magnetoresistive speed sensor (100) ~~as claimed in any one of Claims 1 to 5 as claimed in Claim 1, in automotive engineering, in automotive engineering, in particular for monitoring the speed of a crankshaft or camshaft, or in an ABS system.~~

7. (New) The use of a magnetoresistive speed sensor as recited in Claim 6, wherein the automotive engineering includes at least one of the following: crankshaft speed monitoring, camshaft speed monitoring, or monitoring of an anti-lock braking (ABS) system.

8. (New) A magnetoresistive speed sensor comprising a permanent magnet and a magnetic field detecting sensor for detecting the speed of an object rotating about an x-axis, wherein

the magnetoresistive speed sensor has a measuring direction, characterized in that the measuring direction is aligned parallel with the x-direction, and two magnetic field detecting sensors are disposed at a distance from one another symmetrically in relation to the x-axis on the y-axis and perpendicular to the measuring direction.

9. (New) The magnetoresistive speed sensor as recited in Claim 8, wherein each of the magnetic field detecting sensors is a Wheatstone bridge.

10. (New) The magnetoresistive speed sensor as recited in Claim 8 wherein each of the magnetic field detecting sensors is a half bridge.

11. (New) The magnetoresistive speed as recited in Claim 8, wherein the permanent magnet has a magnetic field component in the x-direction.

12. (New) The magnetoresistive speed as recited in Claim 9, wherein the permanent magnet has a magnetic field component in the x-direction.

13. (New) The magnetoresistive speed as recited in Claim 10, wherein the permanent magnet has a magnetic field component in the x-direction.

14. (New) A magnetoresistive speed sensor comprising,
a permanent magnet having a magnetic field component in the x-direction; and

a magnetic field detecting sensor for detecting the speed of an object rotating about an x-axis, the magnetic field detecting sensor being a Wheatstone bridge, wherein the magnetoresistive speed sensor has a measuring direction, characterized in that the measuring direction is aligned parallel with the x-direction, and two magnetic field detecting sensors are disposed at a distance from one another symmetrically in relation to the x-axis on the y-axis and perpendicular to the measuring direction.